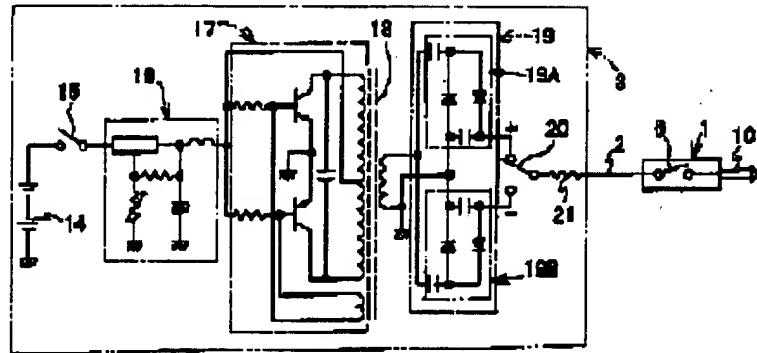


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[Family Lookup](#)**JP10189283****PORTABLE CHARGING UNIT**  
**KASUGA ELECTRIC WORKS LTD****Inventor(s):** TAGUCHI YOSHINARI ;UEHASHI KATSUYUKI  
**Application No. 08345953 , Filed 19961225 , Published 19980721****Abstract:**

**PROBLEM TO BE SOLVED:** To charge a lead terminal of a semiconductor with spark discharge between a charging unit and the lead terminal avoided as much as possible by arranging a voltage

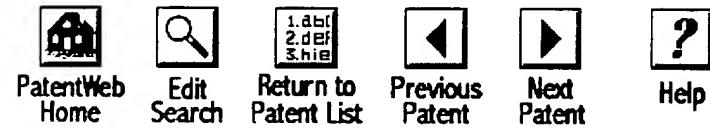
applying on- off switch connected to a polarity switching switch formed in a main body and a metal probe in a pen type voltage applying operation unit connected to the main body with a cord.

**SOLUTION:** A battery 14, a power source on-off switch 15, a power source voltage control part 16, a high frequency oscillation circuit 17, a high frequency step-up transformer 18, and a polarity switching switch 20 which switches plus- minus DC high voltage from a high frequency output and outputs are arranged in a main body 3. The polarity switching switch 20 is connected to a voltage applying on-off switch 6 of a voltage applying operation unit 1 through a current regulating resistance 21 and a cord 2. The voltage on-off switch 6 and a metal probe 10 are electrically connected. Charges are given to only one desirable lead terminal of many lead terminals so as to become a desirable charging condition.

**Int'l Class:** H05F00304

**MicroPatent Reference Number:** 000189191

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